

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/885,297B  
Source: fwj6  
Date Processed by STIC: 11/30/04

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IFW16

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/885,297B

DATE: 11/30/2004  
TIME: 12:00:34

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Output Set: N:\CRF4\11302004\I885297B.raw

3 <110> APPLICANT: INGRAM, LONNIE  
4 ZHOU, SHENGDE  
6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR SIMULTANEOUS SACCHARIFICATION

AND

7 FERMENTATION  
9 <130> FILE REFERENCE: 49950-59776US  
11 <140> CURRENT APPLICATION NUMBER: 09/885,297B  
12 <141> CURRENT FILING DATE: 2001-06-19  
14 <150> PRIOR APPLICATION NUMBER: PCT/US01/19690  
15 <151> PRIOR FILING DATE: 2001-06-19  
17 <150> PRIOR APPLICATION NUMBER: 60/214,137  
18 <151> PRIOR FILING DATE: 2000-06-26  
20 <150> PRIOR APPLICATION NUMBER: 60/219,913  
21 <151> PRIOR FILING DATE: 2000-07-21  
23 <160> NUMBER OF SEQ ID NOS: 24  
25 <170> SOFTWARE: PatentIn version 3.2  
27 <210> SEQ ID NO: 1  
28 <211> LENGTH: 450  
29 <212> TYPE: DNA  
30 <213> ORGANISM: Artificial Sequence  
32 <220> FEATURE:  
33 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
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39 cggtagcca taaccatttt acctgtccgg cggccttaat accttgcata gatgggtcg 120  
41 ggtgttgtta ccttgcgaa gggcaccggg aaaaatgttc gcgtcggtgt ttccggccgt 180  
43 gccccgaaag ctgaagaagc taaagctgt ggtcagaag ttgtcggcgc agaagacctg 240  
45 atgaaagcca ttcagggcgg cagcattgtt ttcgatcgat atgcctttt tactgaaatt 300  
47 gccttcgcgtt gccataatgtt agcgcctcc ggtgttttgg cagatttaag cgctgcctga 360  
49 ttttcgtat cctctagaatgtt ctatgaaatgtt gagattcattt tatgcctctc tcttattcgg 420  
51 ataaccatcc agtcatccgc aagcttggcc 450  
54 <210> SEQ ID NO: 2  
55 <211> LENGTH: 1509  
56 <212> TYPE: DNA  
57 <213> ORGANISM: Artificial Sequence  
59 <220> FEATURE:  
60 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
61 expression vector  
63 <400> SEQUENCE: 2  
64 gatcaaccgg caatttatcc acggcatcaa attcgatctg tctttcccg tatcattggc 60  
66 aataccggca ttctgattac agggcgtgtt ttgaatgcgg tatcgatgtt tgtctatgtc 120  
68 gcatggacat cccagacatt gggattgaac ctgtttgggt tcatgctttt gattacgact 180  
70 tttgctaccc tgatttcgga tattaccgtt tttcagtcattt ggcaaaccctt gctgcattac 240

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72	ggttcaaaag	ctttcagga	aaaagatttt	aaccaatttgc	atgatgtcct	tgccctttgc	300	
74	atcagagccg	attttttag	tgccgcgata	ggtatgttgg	tagggttagg	cggtatcttgc	360	
76	attttaggca	cttcaagatt	ggatggcct	gcccaggatca	agccagatgc	cttgctttgt	420	
78	atgctgatta	tactttttat	gaatatcgcc	tggccaacc	gggatgttgc	ggctgtgtaa	480	
80	ccgcttaaa	ctggctacta	tttatagattt	tattacgacc	tgcgtcagaa	ccggagggttgc	540	
82	tggcattgg	tattggcttc	atatgcctt	ggggatattt	ttgtttat	ggtcctgac	600	
84	gcaattcacg	cttttgc	cctgttagtta	cgctggcatt	tatcttttc	accaatatac	660	
86	ggagcgagca	tttccgataa	aaaaaatatt	tcaagagaaaa	acgcccgttgc	aaggatgtg	720	
88	gaaattcact	ttaagcgtca	gttttaatga	aatcctagac	tccatttcc	agcagggtgg	780	
90	cacccttgc	attggtagct	cactggggc	tggggaagcc	gctgtctatc	gggtcgcgcg	840	
92	ccagattagt	aacggtttat	ccaaaccagc	acagatgtat	atcggttaac	atgcatccac	900	
94	cggcagcacc	ggccgtttta	tgcttggat	tattgtatg	ccgaaaagga	tacaacatct	960	
96	ggaagaaaaa	gacgaaggcc	ggaataagcg	cccattctgc	aaaattgtta	caacttagtc	1020	
98	gcccattcag	ggaatgaaaaa	atcaatccgt	cttttcg	atgagcaacc	aacatttca	1080	
100	aggtatcatc	ctgatgcgc	atatcgcat	cggttagcca	taaccat	tttgc	1140	
102	cggccttaat	accttgc	atcgatca	gatggttcg	gggttggta	ccttgcgaa	gggcacccgt	1200
104	aaaaatgttc	gcgtcggtgt	tttcgc	cccgt	ggccgaaag	ctgaagaagc	taaagctgt	1260
106	ggtgcagaag	ttgtcgccgc	agaagac	atggaa	ttcaggcgg	cagcattgtat	1320	
108	ttcgatcg	atgccttta	tactgaaatt	gccttgcgt	gcataatga	agcagcctcc	1380	
110	ggtgtttgg	cagatttaag	cgctgcctga	tttcgtat	cctctagat	ctatgaaatg	1440	
112	gagattcatt	tatgccttc	tcttattcgg	ataaccatcc	agtcatccgc	aagcttggcc	1500	
114	gtaatccat						1509	
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122	<220>	FEATURE:						
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132	<213>	ORGANISM:	Artificial Sequence					
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146	<220>	FEATURE:						
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153	<210>	SEQ ID NO:	6					
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168 <213> ORGANISM: Artificial Sequence  
170 <220> FEATURE:  
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174 taatacgaact cactatagg 20  
177 <210> SEQ ID NO: 8  
178 <211> LENGTH: 19  
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180 <213> ORGANISM: Artificial Sequence  
182 <220> FEATURE:  
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185 <400> SEQUENCE: 8  
186 cacgacgttg taaaacgac 19  
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190 <211> LENGTH: 18  
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206 <220> FEATURE:  
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223 ggcgcgcc 8  
226 <210> SEQ ID NO: 12  
227 <211> LENGTH: 11544  
228 <212> TYPE: DNA

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 236 <221> NAME/KEY: CDS  
 237 <222> LOCATION: (1452)..(2735)  
 239 <220> FEATURE:  
 240 <221> NAME/KEY: modified\_base  
 241 <222> LOCATION: (3282)..(4281)  
 242 <223> OTHER INFORMATION: a, c, g, t, unknown, or other  
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 245 <221> NAME/KEY: CDS  
 246 <222> LOCATION: (4916)..(5776)  
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 254 <222> LOCATION: (9476)..(11544)  
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260	aataccggca	ttctgattac	aggccgtgtt	ttgaatgcgg	tatgcagttt	tgtctatgtc	120														
262	gcatggacat	cccaagacatt	gggattgaac	ctgtttgggt	tcatgctttt	gattacgact	180														
264	tttgctaccc	tgatttcgga	tattaccgt	tttcagtc	ggcaaaccctt	gctgcattac	240														
266	ggttcaaaag	cttttcagga	aaaagattt	aaccaattt	atgatgtcct	tgcctttgc	300														
268	atcagagccg	attttttag	tgcggcgata	ggtatgttg	tagggttagg	cggtatcttgc	360														
270	attttaggca	cttcaagatt	ggatggcct	gccgaggtca	agccagatgc	cttgctttgt	420														
272	atgctgatta	tacttttat	gaatatccgc	tggtccaacc	gggatgttgc	ggctgtgtaa	480														
274	ccgccttaaa	ctggtcacta	tttatgagtt	tattacgacc	tgcgtcagaa	ccggaggttg	540														
276	tggcattgg	tattggcttc	atatgcctt	ggggatttt	ttgttttatat	ggtgcctgac	600														
278	gcaattcacg	ctttttgtca	cctgttagtta	cgctggcatt	tatctctttc	accaatatac	660														
280	ggagcgagca	tttccgataa	gaaaaatatt	tcagagaaaa	acgcccgtt	aaggatgtg	720														
282	gaaattcact	ttaagcgtca	gttttaatga	aatcctagac	tccattttcc	agcaggggtgg	780														
284	cacccttgct	attggtagct	cactgggggc	tggggaaagcc	gctgtctatc	gggtcgccg	840														
286	ccagattagt	aacggtttat	ccaaaccagc	acagatgtg	atcgctaac	atgcatccac	900														
288	cgccgacc	ggccgtttta	tgttggat	tattgatatg	ccgaaaagga	tacaacatct	960														
290	ggaagaaaaa	gacgaaggcc	ggaataagcg	cccattctgc	aaaattgtta	caacttagtc	1020														
292	gcccacatcag	ggaatgaaaa	atcaatccgt	cttttcggc	atgagcaacc	aacattttca	1080														
294	aggtatcatc	ctgatgcgc	atatcgcat	cggttagcca	taaccatttt	acctgtccgg	1140														
296	cggccttaat	accttgc	gatggttcg	gggtgttta	ccttgcgc	gggcacccgt	1200														
298	aaaaatgttc	ggtcggtgt	tttcgcccgt	ggcccgaaag	ctgaagaagc	taaagctgt	1260														
300	ggtcagaag	ttgtcgccgc	agaagacctg	atgaaagcca	tccaggccg	cagcattgt	1320														
302	ttcgatcg	atgccttta	tactgaaatt	gcctgcgt	gccataatga	agcagcctcc	1380														
304	ggttttgg	cagatttaag	cgtgcctga	tttgcgtat	cctctagat	ctatgaaatg	1440														
306	gagattcatt	t atg	cct ctc	tat	tcg	gat aac	cat cca	gtc atc	gat	1490											
307							Met	Pro	Leu	Ser	Tyr	Ser	Asp	Asn	His	Pro	Val	Ile	Asp		
308		1		5																	

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310	agc	caa	aaa	cac	gcc	cca	cgt	aaa	aaa	ctg	ttt	cta	tct	tgt	gcc	tgt	1538
311	Ser	Gln	Lys	His	Ala	Pro	Arg	Lys	Lys	Leu	Phe	Leu	Ser	Cys	Ala	Cys	
312	15				20							25					
314	tta	gga	tta	agc	ctt	gcc	tgc	ctt	tcc	agt	aat	gcc	tgg	gca	agt	gtt	1586
315	Leu	Gly	Leu	Ser	Leu	Ala	Cys	Leu	Ser	Ser	Asn	Ala	Trp	Ala	Ser	Val	
316	30				35					40				45			
318	gag	ccg	tta	tcc	gtt	agc	ggc	aat	aaa	atc	tac	gca	ggt	gaa	aaa	gcc	1634
319	Glu	Pro	Leu	Ser	Val	Ser	Gly	Asn	Lys	Ile	Tyr	Ala	Gly	Glu	Lys	Ala	
320	320	50			55					60							
322	aaa	agt	ttt	gcc	ggc	aac	agc	tta	tcc	tgg	agt	aat	aat	ggt	tgg	ggt	1682
323	Lys	Ser	Phe	Ala	Gly	Asn	Ser	Leu	Phe	Trp	Ser	Asn	Asn	Gly	Trp	Gly	
324	65				70					75							
326	ggg	gaa	aaa	ttc	tac	aca	gcc	gat	acc	gtt	gca	tgc	ctg	aaa	aaa	gac	1730
327	Gly	Glu	Lys	Phe	Tyr	Thr	Ala	Asp	Thr	Val	Ala	Ser	Leu	Lys	Lys	Asp	
328	80				85					90							
330	tgg	aaa	tcc	agc	att	gtt	cgc	gcc	gct	atg	ggc	gtt	cag	gaa	agc	ggt	1778
331	Trp	Lys	Ser	Ser	Ile	Val	Arg	Ala	Ala	Met	Gly	Val	Gln	Glu	Ser	Gly	
332	95				100					105							
334	ggt	tat	ctg	cag	gac	ccg	gct	ggc	aac	aag	gcc	aaa	gtt	gaa	aga	gtg	1826
335	Gly	Tyr	Leu	Gln	Asp	Pro	Ala	Gly	Asn	Lys	Ala	Lys	Val	Glu	Arg	Val	
336	110				115					120			125				
338	gtg	gat	gcc	gca	atc	gcc	aac	gat	atg	tat	gtg	att	att	gac	tgg	cac	1874
339	Val	Asp	Ala	Ala	Ile	Ala	Asn	Asp	Met	Tyr	Val	Ile	Ile	Asp	Trp	His	
340	130				135					140							
342	tca	cat	tct	gca	gaa	aac	aat	cgc	agt	gaa	gcc	att	cgc	ttc	tcc	cag	1922
343	Ser	His	Ser	Ala	Glu	Asn	Asn	Arg	Ser	Glu	Ala	Ile	Arg	Phe	Phe	Gln	
344	145				150					155							
346	gaa	atg	gcg	cgc	aaa	tat	ggc	aac	aag	ccg	aat	gtc	att	tat	gaa	atc	1970
347	Glu	Met	Ala	Arg	Lys	Tyr	Gly	Asn	Lys	Pro	Asn	Val	Ile	Tyr	Glu	Ile	
348	160				165					170							
350	tac	aac	gag	ccg	ctt	cag	gtt	tca	tgg	agc	aat	acc	att	aaa	cct	tat	2018
351	Tyr	Asn	Glu	Pro	Leu	Gln	Val	Ser	Trp	Ser	Asn	Thr	Ile	Lys	Pro	Tyr	
352	175				180					185							
354	gcc	gaa	gcc	gtg	att	tcc	gcc	att	cgc	gcc	att	gac	ccg	gat	aac	ctg	2066
355	Ala	Glu	Ala	Val	Ile	Ser	Ala	Ile	Arg	Ala	Ile	Asp	Pro	Asp	Asn	Leu	
356	190				195					200			205				
358	att	att	gtc	ggt	acg	ccc	agt	tgg	tcg	caa	aac	gtt	gat	gaa	gcg	tcg	2114
359	Ile	Ile	Val	Gly	Thr	Pro	Ser	Trp	Ser	Gln	Asn	Val	Asp	Glu	Ala	Ser	
360	210				215					220							
362	cgc	gat	cca	atc	aac	gcc	aag	aat	atc	gcc	tat	acg	ctg	cat	tcc	tac	2162
363	Arg	Asp	Pro	Ile	Asn	Ala	Lys	Asn	Ile	Ala	Tyr	Thr	Leu	His	Phe	Tyr	
364	225				230					235							
366	gcg	gga	acc	cat	ggt	gag	tca	tta	cgc	act	aaa	gcc	cgc	cag	gcg	tta	2210
367	Ala	Gly	Thr	His	Gly	Glu	Ser	Leu	Arg	Thr	Lys	Ala	Arg	Gln	Ala	Leu	
368	240				245					250							
370	aat	aac	ggt	att	gcg	ctt	tcc	gtc	acc	gag	tgg	ggc	gcc	gtt	aac	gcg	2258
371	Asn	Asn	Gly	Ile	Ala	Leu	Phe	Val	Thr	Glu	Trp	Gly	Ala	Val	Asn	Ala	
372	255				260					265							
374	gac	ggc	aat	ggc	gga	gtg	aac	cag	aca	gat	acc	gac	gcc	tgg	gta	acg	2306

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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L:432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3275  
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3335  
L:436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3395  
L:438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3455  
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3515  
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3575  
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3635  
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3695  
L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3755  
L:450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3815  
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3875  
L:454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3935  
L:456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3995  
L:458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:4055  
L:460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:4115  
L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:4175  
L:464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:4235  
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9451  
L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9511  
L:750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9571  
L:752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9631  
L:754 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9691  
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9751  
L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9811  
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9871  
L:762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9931  
L:764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:9991  
L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10051  
L:768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10111  
L:770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10171  
L:772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10231  
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L:778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10411  
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L:782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10531  
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10591  
L:786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10651  
L:788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10711  
L:790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10771  
L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10831  
L:794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10891  
L:796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:10951  
L:798 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11011  
L:800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11071  
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11131  
L:804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11191  
L:806 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11251

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 L:812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11431  
 L:814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:11491  
 L:890 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:120  
 L:892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:180  
 L:894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:240  
 L:896 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:300  
 L:898 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:360  
 L:900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:420  
 L:902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:480  
 L:904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:540  
 L:906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:600  
 L:908 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:660  
 L:910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:720  
 L:912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:780  
 L:914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:840  
 L:916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:900  
 L:918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:960  
 L:920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1020  
 L:922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1080  
 L:924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1140  
 L:1076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5700  
 L:1078 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5760  
 L:1080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5820  
 L:1082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5880  
 L:1084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:5940  
 L:1086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6000  
 L:1088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6060  
 L:1090 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6120  
 L:1092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6180  
 L:1094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6240  
 L:1096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6300  
 L:1098 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6360  
 L:1100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6420  
 L:1102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6480  
 L:1104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6540  
 L:1106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6600  
 L:1108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6660  
 L:1110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6720  
 L:1112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6780  
 L:1114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6840  
 L:1116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6900  
 L:1118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:6960  
 L:1120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7020  
 L:1122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7080  
 L:1124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7140  
 L:1126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7200  
 L:1128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7260

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/885,297B

DATE: 11/30/2004

TIME: 12:00:35

Input Set : A:\49955977.app

Output Set: N:\CRF4\11302004\I885297B.raw

L:1130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7320  
L:1132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7380  
L:1134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7440  
L:1136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7500  
L:1138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:7560